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Novel 2,5-di:substd. 3-chloro:pyridine(s) - useful in stable components in ferro-electric or nematic liq. crystal mixts. for surfaces or displays.

Assignee: HOECHST AG Standard company (FARH...)
 Inventor: JUNGBAUER D; MANERO J; SCHLOSSER H;

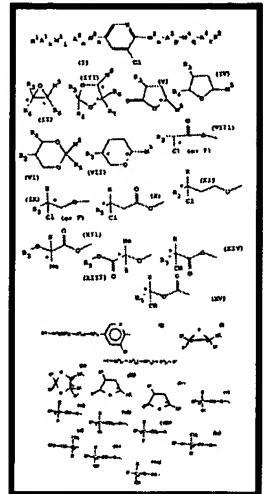
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Accession / Update: 1994-359178 / 199725

IPC Code: C07D 213/61 ; C07F 5/02 ; C07D 213/62 ; C07D 213/64 ; C07D 213/65 ; C07D 213/79 ;
 C07D 213/83 ; C07D 401/06 ; C07D 401/12 ; C07D 403/10 ; C07D 405/06 ; C07D 405/12 ;
 C07D 405/14 ; C07D 417/12 ; C07F 7/04 ; C09K 19/34 ; G02F 1/13 ; G09F 9/35 ;

Derwent Classes: E13; L03; P81; P85; U11; V07; E11;

Manual Codes: E05-E01(Heterocyclic or aromatic with Si-C bond) , E07-A02C(Tetrahydrofuran with =O, no -O- substituents) , E07-A03B(Other oxiran) , E07-A04(Ring with more than one O) , E07-D04B(Pyridine production) , E07-D10(Pyr(id)azine, excluding piperazine) , E07-D12 (Pyrimidine) , E07-F03(Others) , L03-D01D1(Liquid crystal compounds) , U11-A03A (Liquid crystal material, compounds, additives) , V>7-K10A()

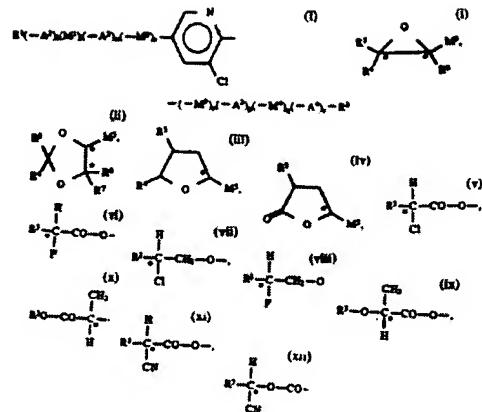


Derwent Abstract: (DE4315867A) 3-Chloropyridines of formula (I) are new. In (I), R1 and R2 = H, F, Cl, CN, NCS, CF3, OCF3, OCHF2, 1-16C alkyl (opt. with asymmetric C, opt. with 1 or 2 non-adjacent CH2 replaced by -O-, -S-, -CO- -CO.O-, O.CO-, -CO-S-, -S.CO-, -O-CO.O-, -CH=CH-, -CC-, 1,2-cyclopropylene or -Si(Me)2 - and opt. with 1 or more of the alkyl H substd. by F, Cl, Br or CN), or one of the chiral gps. of formula (II)-(XV); A1-A4 = 1,4-phenylene, pyrazin-2,5-diy, pyridazin-3,6-diy, pyridin-2,5-diy, pyrimidin-2,5-diy(opt. with 1 or 2 H replaced by F), trans-1,4-cyclohexylene (opt. with 1 or 2H replaced by CN), (1,3,4)-thiadiazol-2,5-diy, 1,3-dioxan-2,5-diy, naphthalen-2,6-diy, bicyclo (2.2.2) octan-1,4-diy or 1,3-dioxaborinan-2, 5-diy; M1-M4 = -O-, -S-, -CO-, -CO.O-, -O.CO-, -CO.S-, -S.CO-, -O.CO.O-, -CH2.O-, -O.CH2-, -CH2.CH2-, -CH=CH= or -CC-; R3, R4, R6 and R7 = H or 1-16C alkyl or R3/R4 together form (CH2)4- or -(CH2)5 when substd. on a dioxolan system; M5 = -CH2.O-, -CO.O-, -O.CH2-, -O.CO- or a single bond; and k-r = 0 or 1, with k+m+p+r above 0 but less than 4. Also claimed are (i) prepn. of (I) by converting 3-Cl-2-hydroxypyridine in a no. of stages to 2,5-di-Br-3-chloropyridine and then replacing both Br with the required gps; and (ii) liq. crystal mixts. contg. (I) and switching or display devices comprising such a mixt. together with a carrier, electrodes, polariser and orientation film. .

ADVANTAGE (I) are (photo) chemically stable cpds. with low m.pt. and wide liq. crystal phases, esp. wide nematic, smectic A and smectic C phases, used together with 2-20 (esp. 2-15) components in ferroelectric or nematic liq. crystal mixts.

Abstract info: DE4315867A: Dwg.0/0 , US5629428: Dwg.0/0

Images:



Family:	Patent	Pub. Date	DW Update	Pages	Language	IPC Code
	<u>DE4315867A1</u> *	Nov. 17, 1994	199445	25	German	C07D 213/61
Local appls.: <u>DE1993004315867</u> ApplDate:1993-05-12 (93DE-4315867)						
	<u>US5629428</u> =	May 13, 1997	199725	16	English	C07F 5/02
Local appls.: <u>US1994000240240</u> ApplDate:1994-05-10 (94US-0240240)						
	<u>JP6340629A</u> =	Dec. 13, 1994	199509	26	English	C07D 213/61
Local appls.: <u>JP1994000098767</u> ApplDate:1994-05-12 (94JP-0098767)						

Priority Number:

Application Number	Application Date	Original Title
DE1993004315867	May 12, 1993	3-CHLORPYRIDINE, VERFAHREN ZU IHRER HERSTELLUNG UND IHRE VERWENDUNG IN FLUESSIGKRISTALLMISCHUNGEN

Chemical Indexing Codes: [Show chemical indexing codes](#)Markush Compound Numbers: [Show Markush numbers](#)Ring Index Numbers: [Show ring index numbers](#)

Related Accessions:

Accession Number	Type	Derwent Update	Derwent Title
C1994-163836	C		
N1994-281412	N		
2 items found			

Title Terms: NOVEL DI SUBSTITUTE CHLORO PYRIDINE USEFUL STABILISED COMPONENT FERRO ELECTRIC NEMATIC LIQUID CRYSTAL MIXTURE SURFACE DISPLAY

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